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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/719,399	11/21/2003	Christopher T. Maxwell	TI-36943	2566
23494	7590 10/29/2004	EXAMINER		
	TRUMENTS INCOR 474, M/S 3999	LAM, TUAN THIEU		
DALLAS, TX 75265			ART UNIT	PAPER NUMBER
,			2816	

DATE MAILED: 10/29/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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R 1.121(d). O-152.	
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	Application No.	Applicant(s)			
	10/719,399	MAXWELL, CHRISTOPHER T.			
Office Action Summary	Examiner	Art Unit			
	Tuan T. Lam	2816			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply lifvNO period for reply is specified above, the maximum statutory period we Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ib(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U S C S 133)			
Status	:				
1) Responsive to communication(s) filed on 21 No.	ovember 2003.				
	action is non-final.				
3) Since this application is in condition for allowan	ce except for formal matters, pro	secution as to the merits is			
closed in accordance with the practice under E.	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.			
Disposition of Claims					
4)⊠ Claim(s) <u>1-16</u> is/are pending in the application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.				
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-16</u> is/are rejected.					
7) Claim(s) is/are objected to.		· · ·			
8) Claim(s) are subject to restriction and/or	election requirement.				
Application Papers					
9)☐ The specification is objected to by the Examiner	·.				
10)⊠ The drawing(s) filed on 21 November 2003 is/ar		ed to by the Examiner.			
Applicant may not request that any objection to the c					
Replacement drawing sheet(s) including the correction					
11)☐ The oath or declaration is objected to by the Exa	aminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau 	have been received. have been received in Application to the documents have been receive	on No			
* See the attached detailed Office action for a list of the certified copies not received.					
•					
Attachment(s)					
Notice of References Cited (PTO-892)	4) Interview Summary (PTO-413)			
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da				

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DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the limitations of "PMOS MUX", "NMOS MUX" of claims 5 and 9 must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

Corrected drawing sheets in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. Any amended replacement drawing sheet should include all of the figures appearing on the immediate prior version of the sheet, even if only one figure is being amended. The figure or figure number of an amended drawing should not be labeled as "amended." If a drawing figure is to be canceled, the appropriate figure must be removed from the replacement sheet, and where necessary, the remaining figures must be renumbered and appropriate changes made to the brief description of the several views of the drawings for consistency. Additional replacement sheets may be necessary to show the renumbering of the remaining figures. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

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3. Claims 5 and 9 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claims 5 and 9, the recitation of "PMOS MUX" and "NMOS MUX" is indefinite because it is unclear as to if PMOS MUX (or NMOS MUX) is a MUX having only PMOS transistors (or NMOS transistors). Clarification is required.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 5. Claims 1-16 are rejected under 35 U.S.C. 102(b) as being anticipated by Kaplinsky (USP 5,920,210).

Figure 2 shows buffer circuit comprising a plurality of multiplexers circuits (45-48) having a common input node (IN), an upper output node (49) and a lower output node (50), wherein the plurality of MUXs are configured to generate output signal at upper and lower nodes in response to an input signal at IN such that during an input signal transition at IN, the upper and lower nodes are never on simultaneously as called for in claims 1, 3-4, 6-8 and 11-16.

Regarding claims 2 and 10, tri-state condition is achieved by transistors 55 and 56.

Regarding claims 5 and 9, PMOS MUX and NMOS, insofar as understood, is a multiplexer having PMOS transistors and NMOS transistors, respectively. Figure 2 of

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Kaplinsky shows the multiplexers comprises PMOS transistors and NMOS transistors.

Therefore, the limitations of claim 4 are fully met.

Conclusion

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The prior art made of record and not relied upon is considered pertinent to applicant's 6. disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan T. Lam whose telephone number is 571-272-1744. The examiner can normally be reached on Monday to Friday (7:30 am to 6:00pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, TIMOTHY P CALLAHAN can be reached on 571-272-1740. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Primary Examiner

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